



SKCET
Buzz

05th - 11th February 2022



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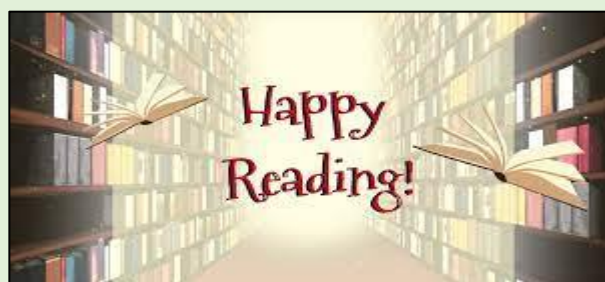
Mrs.K.Ananthi – MCT,

Mr.S.Sureshkumar – CSE,

Mrs.S.Mary Fabiola - S&H

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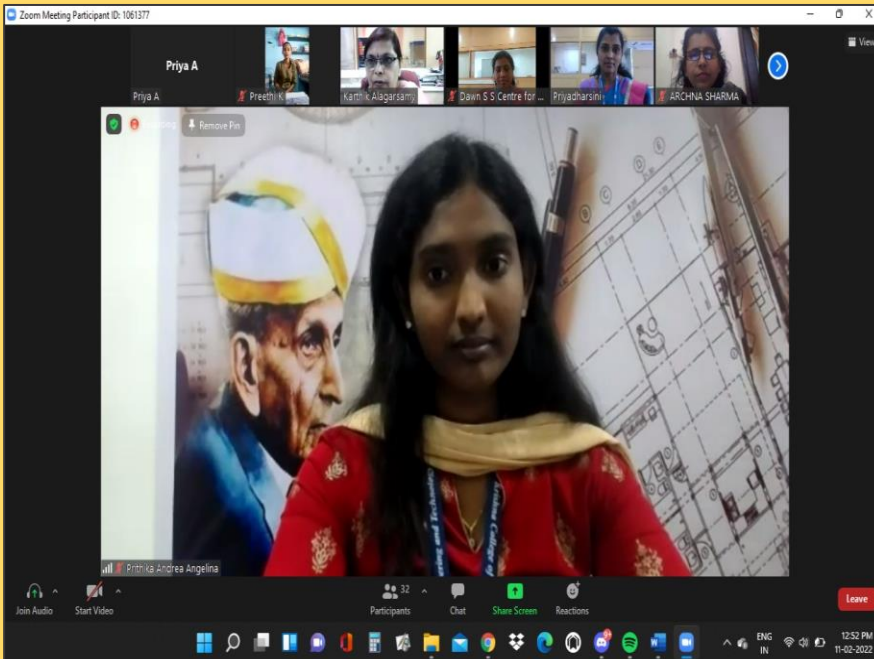


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STUDENT PROGRESSION

S & H | ELOCUTION COMPETITION



F.Prithika Andrea Angelina, student of First year CSE has won **Second Prize** in the **Elocution Competition** on “**Journey of Women in Science**” organized by Sathyabama Institute of Science and Technology, Chennai on 11.02.2022. The competition was organized owing to the celebration of International Day of Women and Girls in Science. The jury members garnered appreciations for the wonderful delivery and flow of thoughts.

CSE | FIRST YEAR PG ORIENTATION PROGRAMME

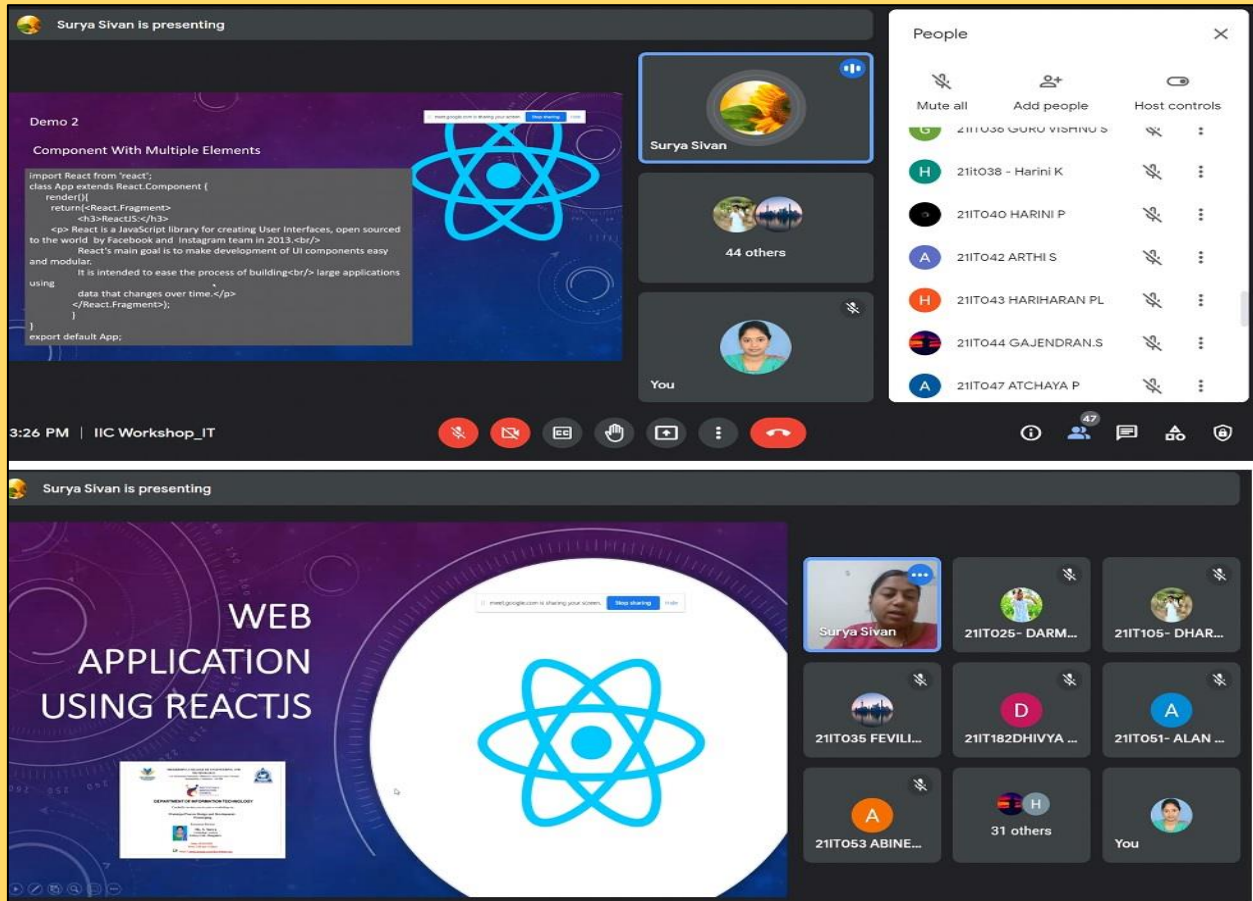


Department of **Computer Science and Engineering** organized an Orientation Program for the **First year PG** students.

Session Highlights:

- Discussion on Syllabus/ Curriculum
- Identifying Field of Interest
- Importance of Paper publications and proposals
- Usage of Web resources in effective way
- Academic Rules and Regulations

IT| PROTOTYPE/PROCESS DESIGN AND DEVELOPMENT

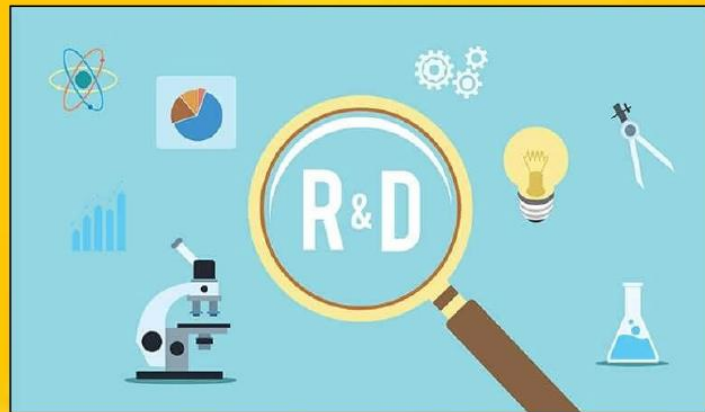


Department of **Information Technology** in association with **MHRD - Institution's Innovation Council** organized a Workshop titled **“Prototype/Process Design and Development”**. Mrs. S. Surya, Technology Analyst, Infosys Ltd., Bangalore was the Resource Person. Prototype design with React JS, essence of web User Interface Development and the prerequisites of becoming a successful front-end developer were the session highlights.

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RESEARCH AND DEVELOPMENT

R&D | PATENT PUBLICATION | CIVIL & MCT

Application Details	
APPLICATION NUMBER	202241004825
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/01/2022
APPLICANT NAME	1. Mr. R. Vighnesh 2. Mr. M. R. Ezhilkumar 3. Mrs. S. Vaishnavi Devi 4. Mr. A. Aswin Bharath 5. Dr. S. Ramakrishnan 6. Mr.T.Vignesh
TITLE OF INVENTION	PLASTERING TOOL FOR ROUNDING WALL CORNERS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	vighneshr1992@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vighneshr1992@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	..
PUBLICATION DATE (U/S 11A)	04/02/2022

Mr. R. Vighnesh, Mr. M. R. Ezhil Kumar, Mr. A. Aswin Bharath and Dr. S. Ramakrishnan, Department of Civil Engineering along with Mr. T. Vignesh, Department of Mechatronics Engineering have published a patent titled "Plastering Tool for Rounding Wall Corners" It was published on 04.01.2022.

R&D | PATENT PUBLICATION | MCT

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202241000054 A
(19) INDIA	
(22) Date of filing of Application :01/01/2022	(43) Publication Date : 04/02/2022
(54) Title of the invention : INTELLIGENT STREET LAMPS IN SMART CITIES BASED ON THE INTERNET OF THING	
(51) International classification : H05B0047190000, H05B0047100000, H05B0047185000, E02D0029140000, H04B0010112000	(71) Name of Applicant : 1) Dr. E. Ramaraj Address of Applicant : Professor and Head, Department of Computer Science, Alagappa University, Karaikudi, Tamil Nadu - 630003. Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1) Dr. E. Ramaraj Address of Applicant : Professor and Head, Department of Computer Science, Alagappa University, Karaikudi, Tamil Nadu - 630003. 2) Mr. K. Kranthi Kumar Address of Applicant : Assistant Scholar, Department of Computer Science, Alagappa University, Karaikudi, Tamil Nadu - 630003. 3) Mr. B V N Prasad Paruchuri Address of Applicant : Assistant Professor, Department of Computer Science Engineering, Dhanekula Institute of Engineering & Technology, Vijayawada, Andhra Pradesh - 521139. 4) Mr. S. Rajesh Address of Applicant : Assistant Professor, Department of Mechanical Engineering, R.M.K. Engineering College, Kavaraipeetai - 601206. 5) Mr. S. Madhankumar Address of Applicant : Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore - 641008. 6) Mr. R. Bahamaragan Address of Applicant : Assistant Professor, Department of Automobile Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode - 638401. 7) Dr. T. A. Selvan Address of Applicant : Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore - 641008. 8) Ms. P. REVATHI Address of Applicant : Assistant Professor, Department of Information Technology, Hindusthan college of Engineering and Technology, Valley Campus, Pollachi Road, Coimbatore - 641032.
(86) International Application No. : NA Filing Date : NA (87) International Publication No. : NA (61) Patent of Addition to Application Number : NA Filing Date : NA (62) Divisional to Application Number : NA Filing Date : NA	

Dr. T. A. Selvan, Professor, MCT and Mr. S. Madhankumar, Assistant Professor, MCT have published a patent titled "Intelligent Street Lamps in smart Cities Based on Internet of Things", The patent office Journal No.202241000054A published on 04.02.2022.

R&D | PATENT PUBLICATION | MCT

(12) PATENT APPLICATION PUBLICATION	(21) Application No 202241005058 A
(19) INDIA	
(22) Date of filing of Application : 31/01/2022	(43) Publication Date : 04/02/2022
(54) Title of the invention : Solar Powered IOT Based Lawn Mower	
(51) International Classification G05D000120000, A01D003400000, A01D0049020000	(71) Name of Applicant : 1)SOUNDARAJAN KARTHIK Address of Applicant :136, Main Road, Mangalam Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)L. Feroz Ali Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 2)K Raj Mohan Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 3)R Ramesh Babu Address of Applicant :Karpagam Institute of Technology, Coimbatore 641105 4)S Nithish Narayanan Sair Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 5)A Saiyathubrahim Address of Applicant :Karpagam Institute of Technology, Coimbatore 641105 6)R Prasanth Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 7)S N Vijayan Address of Applicant :Karpagam Institute of Technology, Coimbatore 641105 8)R Sathish Kannan Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 9)S Raja Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 10)C Rajendran Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 11)S Balasubramani Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008 12)A Rajesh Address of Applicant :Sri Krishna College of Engineering and Technology, Coimbatore 641008
(86) International Application No Filing Date	PC7// :01/01/1900
(87) International Publication No	:NA
(81) Point of Addition to Application Number	:NA
Filing Date	:NA
(82) Divisional to Application Number	:NA
Filing Date	:NA

Dr.L.Feroz Ali, and Dr.S.Balasubramani, Assistant Professors, MCT have published a patent titled “Solar powered IOT based Lawn Mover”, The patent office Journal No.202241005058A published on 04/02/2022.

R&D | JOURNAL PUBLICATION | CSE

Dr.D. Prabha, Professor, Department of CSE, has published a paper entitled “Evaluation of Different Variable Selection Approaches with Naive Bayes to Improve the Customer Behavior Prediction” in Inventive Computation and Information Technologies. This is Scopus indexed Journal.

DOI: https://doi.org/10.1007/978-981-16-6723-7_14

Evaluation of Different Variable Selection Approaches with Naive Bayes to Improve the Customer Behavior Prediction

R. Siva Subramanian, D. Prabha, J. Aswini, and B. Maheswari

Abstract Study of consumer behavior analysis within the enterprises is considered as paramount to identify how the customers are satisfied with the enterprise's services and also predicate how long a customer will exist in the enterprises in future. To achieve better customer satisfaction and to establish a sustainable relationship with the customers, the need for consumer analysis must be performed out expertly. To perform customer analysis in a better way, NB an ML model is studied and analyzed. But due to uncertainties present in the dataset like redundant, irrelevant, missing, and noisy variables makes the NB classifier to analyze wisely. Also violation of independence assumption between the variables in the dataset causes the NB to execute the customer analysis ineffectively. To improve customer analysis with these datasets and to strengthen the NB prediction, this research aims to use of variable selection approach. The variable selection methodology picks the best optimal variable subset by using some evaluation and search strategies to obviate the associated and unrelated variables in learning set and makes the NB assumption satisfied and enhance NB prediction in customer analysis. Three different variable selection methodology is applied in this research (filter, wrapper and hybrid) In filter seven different approaches—Information gain, Symmetrical uncertainty, Correlation attribute evaluation (CAE), OneR, Chi-square, Gain ratio, and ReliefF are applied and in wrapper five approaches—SFS, SBS, Genetic, PSO and Bestfirst are applied and in Hybrid approach combines both filter and wrapper approach. These three methodology works independently to selects the optimal variable subset and uses

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S. Snyts et al. (eds.), *Inventive Computation and Information Technologies*, Lecture Notes in Networks and Systems 336, https://doi.org/10.1007/978-981-16-6723-7_14

R&D | PATENT PUBLICATION | ECE

Ms.G.Saranya, Assistant Professor, ECE has published a patent titled “Eight- Element MIMO (multiple inputs, multiple outputs) systems for compact 5G Mobile” on 04.02.2022. Publication no. 202141059479 A.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202141059479 A
(19) INDIA	
(22) Date of filing of Application :20/12/2021	(43) Publication Date : 04/02/2022
(54) Title of the invention : Eight- Element MIMO (multiple inputs, multiple outputs) systems for compact 5G Mobile	
(51) International classification	H01Q0001380000, H01Q0001220000, H03K0003000000, H01Q0021200000, G06K0009070000
(86) International Application No	PCT/IN/01/01/1900
(87) International Publication No	NA
(61) Patent of Addition to Application Number	NA
(62) Divisional to Application Number	NA
(63) Filing Date	NA
(71) Name of Applicant :	1)Dr.R.Thandiah Prabu Address of Applicant :Associate Professor, Department of VLSI Microelectronics, Institute of Electronics and Communication Engineering, Savertha School of Engineering, Savertha Institute of Medical and Technical Sciences, Chennai Pin 602105 State : Tamilnadu Country: India -----
(72) Name of Inventor :	2)Dr.P.Kalpana Devi 3)Mrs.A.Prjya 4)Ms.G.Saranya 5)Mr. N.V.Krishnamoorthy 6)Ms. Svarnathula M 7)Mrs.M.Renuka Name of Applicant : NA Address of Applicant : NA Country: India -----
(73) Name of Applicant :	1)Dr.R.Thandiah Prabu Address of Applicant :Associate Professor, Department of VLSI Microelectronics, Institute of Electronics and Communication Engineering, Savertha School of Engineering, Savertha Institute of Medical and Technical Sciences, Chennai Pin 602105 State : Tamilnadu Country: India -----
(74) Name of Applicant :	2)Dr.P.Kalpana Devi Address of Applicant :VelTech Rangarajan Dr.Sagarthala R & D Institute of Science and Technology, Avadi, Chennai, Pin: 600092 State: Tamilnadu Country: India -----
(75) Name of Applicant :	3)Mrs.A.Prjya Address of Applicant :Assistant Professor (SG), Department of ECE, B.S. Abdur Rahman Crescent Institute of Science and Technology, Sethuhalai Estate, Grand Southern Trunk Road, Vandalur, Chennai, Pin: 600048 State: Tamilnadu Country: India -----
(76) Name of Applicant :	4)Ms.G.Saranya Address of Applicant :Assistant Professor, Department of ECE, Sri Krishna College of Engineering and Technology Kanjiamuthur, Coimbatore- 641008 State: Tamilnadu Country: India -----
(77) Name of Applicant :	5)Mr. N.V.Krishnamoorthy Address of Applicant :Associate Professor, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology Kanjiamuthur, Coimbatore- 641008 State: Tamilnadu Country: India -----
(78) Name of Applicant :	6)Ms. Svarnathula M Address of Applicant :Assistant professor, Department of ECE, Karpaga Vinayaga College of Engineering and Technology, GST Road, Chinnakulamhakkam, Madhavandhan Taluk, Chengalpattu District, Pin: 603308 State: Tamilnadu Country: India -----
(79) Name of Applicant :	7)Mrs.M.Renuka Address of Applicant :B35, NH 1, Lig. Pandan street, Maraimalai Nagar, Chengalpattu District, Pin: 603209 State: Tamilnadu Country: India -----
(57) Abstract	Eight- Element MIMO (multiple inputs, multiple outputs) systems for compact 5G Mobile Abstract: One of the ideas in this paper is to create an 8-element MIMO antenna that could be used in 5G communications, the internet of things, and other networks. An H-shaped monopole antenna can be used to operate this system in the 1.4-3.6GHz frequency range, providing 200MHz of bandwidth and a separation below 12 dB without decoupling. The FR4 substrate, with a thickness of 0.8 millimetres, is widely available on the market. This is done to prevent short circuits from forming with other parts and devices. This method can also be used to add more systems, subsystems, and components. A prototype is created in this experiment, and the results from both the experiment and the computer show that they are exactly the same. It makes no difference that the FCC's 0.2 and capacity: 30 Mbps. The results remain consistent with the standards. Single and dual hand mode analysis, as well as other tests, are performed to better understand how the system works and to determine if there are any losses or changes in performance parameters. As an added bonus, due to its simple design, it can be mass-produced and used in industrial settings.
No. of Pages : 10 No. of Claims : 8	

R&D | SCIENTIFIC ARTICLE PUBLICATION | MECH

Dr.R.Soundararajan, Associate Professor, Mechanical Engineering has published a scientific research article titled “Assessing the Tribological Behaviour of Stir Casted AA 6063 with xwt% ZrSiO4 and 6wt% TiB2 Hybrid Composites” in the Journal of The Institution of Engineers (India): Series D publication by Springer. It is a Scopus indexed journal (Impact Factor: 1.423).

J. Inst. Eng. India Ser. D
<https://doi.org/10.1007/s40033-021-00306-w>



ORIGINAL CONTRIBUTION

Assessing the Tribological Behaviour of Stir Casted AA 6063 with xwt% ZrSiO₄ and 6wt% TiB₂ Hybrid Composites

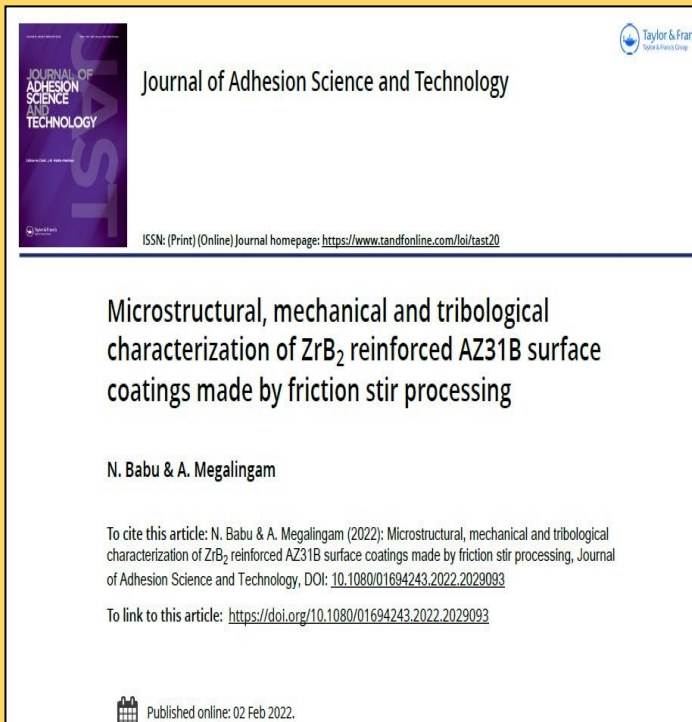
K. Kaviyaran¹ · R. Soundararajan² · R. Robin Roger¹ · S. Rudresh¹ · R. Sharfaaz Ismail¹ · V. Sankar Prasad¹

Received: 5 May 2021 / Accepted: 9 October 2021
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Abstract A new combination of AA6063 as a matrix material with ZrSiO₄ and TiB₂ as its reinforcements were taken to fabricate hybrid composites by stir casting method. The fabricated specimens are as-cast condition; initially, in further by varying, the reinforcement particles of 2 and 4 weight percentage (wt%) of ZrSiO₄ and 6 wt% of TiB₂ were kept constant. The three prepared specimens were tested at room temperature under dry sliding conditions specimen. The new combination of hybrid composites has better tribological behaviour in which it can be preferred for automobile and aeronautical component replacement.

Keywords AA6063 · TiB₂ · ZrSiO₄ · Tribometer · Wear and friction

R&D | ARTICLE PUBLICATION | MECH



Mr.N.Babu, Assistant Professor, Mechanical Engineering has published a scientific research article titled “Microstructural, mechanical and tribological characterization of ZrB₂ reinforced AZ31B surface coatings made by friction stir processing” in the Journal of Adhesion Science and Technology publication by Taylor and Francis. The journal is listed in Anna University Annexure 1 (Impact Factor: 2.077), Indexed in SCI and Scopus.

ANATOMY OF A SCIENTIFIC PAPER



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TRAINING AND PLACEMENT

PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

**Nivetha M,
EEE (2021 Batch),
Hexaware**

“Dreams do come true”. Everyone has dreams, some pursue and some don't. I too had dreams and all of them came true only because of Sri Krishna College of Engineering and Technology. I would proudly say that the person I am today is not only because of me, but also everyone in my 4 years of journey helped me and lifted me. My greatest fear was how to face interview but my placement team and my faculty members played a major role in giving me hope and I successfully overcame those fears. From being a student to a working woman I really felt blessed it was all because of one of my biggest choices I have ever made to be a SKCETIAN. My college is the happiest place ever, being there gives a positive vibe. The cafe, Library, Classroom, Temple and my laboratories all these places have given a lot of memories to cherish. The freedom I got was the reason I was stress free and I was able to do handle things. I am thankful to my Principal, Placement Team, Faculty members, Friends and my Family for their support. I will always preserve my good days of my 4 years of college life. Dreams come true when you have the right people and right place.

PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

**Vishali G,
CSE (2021 Batch),
Virtusa**



It gives me great pleasure to say with pride that I have completed my under graduate degree from Sri Krishna College of Engineering and Technology. It has helped me to develop a positive attitude towards my studies and discover more about myself. The relationship between faculty and student is very cordial, which gave me an opportunity to excel in my studies. The four years spent here were splendid and has helped me to grow better professionally & personally. I would like to thank all the faculty members and placement team for making me a “Better Person”.

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CLASS COMMITTEE MEETING

S&H | CLASS COMMITTEE MEETING

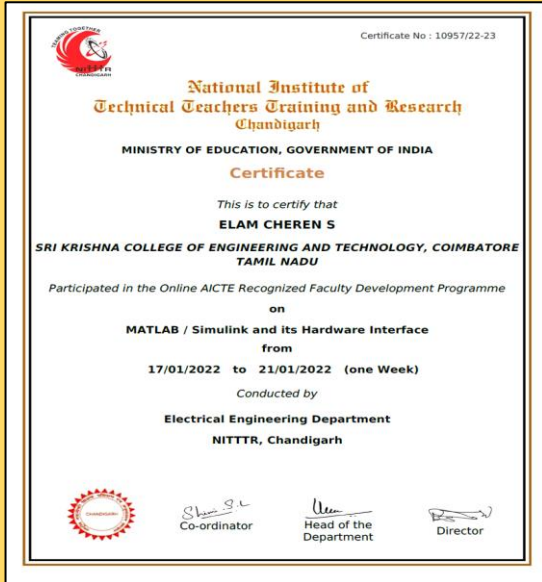


Dr.V.Ragavi, HoD, Science and Humanities conducted Class Committee Meeting for the **First** year BE /B.Tech, M.Tech CSE students. The meeting ensured whether the class is kept informed of all information and activities. It also enabled the students to provide feedback regarding the teaching-learning process, internal assessments, and mentoring. It ended up with an instilling positivity to create prolific innovations and creativity which are the keys of professional realm.



FACULTY CERTIFICATION

EEE | FDP ON MATLAB / SIMULINK AND ITS HARDWARE INTERFACE



Mr.S.Elamcheren, Assistant Professor, EEE has participated in an online AICTE recognized Faculty Development Programme on “**MATLAB / Simulink and its Hardware Interface**” organized by the Department of Electrical Engineering, NITTTR-Chandigarh.

IT| ORACLE CERTIFICATION

Dr.S.Deepa Kanmani, Associate Professor, Department of **Information Technology** has successfully completed “**Oracle Cloud Infrastructure 2021 Certified Architect Professional**” recognized by Oracle corporation.



CSE| NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION



Dr.P.Kavitha Rani, HoD, CSE, Dr. A. Pushpalatha, Dr.B.Arun Kumar, Dr.D.Prabha, Ms.M.Kavitha, faculty members of CSE Department has participated in a training program on “National Intellectual Property Awareness Mission” organized by Intellectual Property Office, India on 27.01.2022.

CSE| ORACLE CERTIFICATION



Dr.D.Prabha, Dr.T.Latha Maheshwari, Professors, CSE has successfully completed a course titled “Oracle Cloud Infrastructure 2021 Certified Architect Professional” organized by Oracle Corporation on 07.02.2022.

IT| IP AWARENESS/TRAINING PROGRAM

Dr.T.Keerthika, Associate Professor, Department of Information Technology has participated in IP Awareness / Training program under National Intellectual Property Awareness Mission organized by the Intellectual Property Office, India.



S&H | IP AWARENESS TRAINING



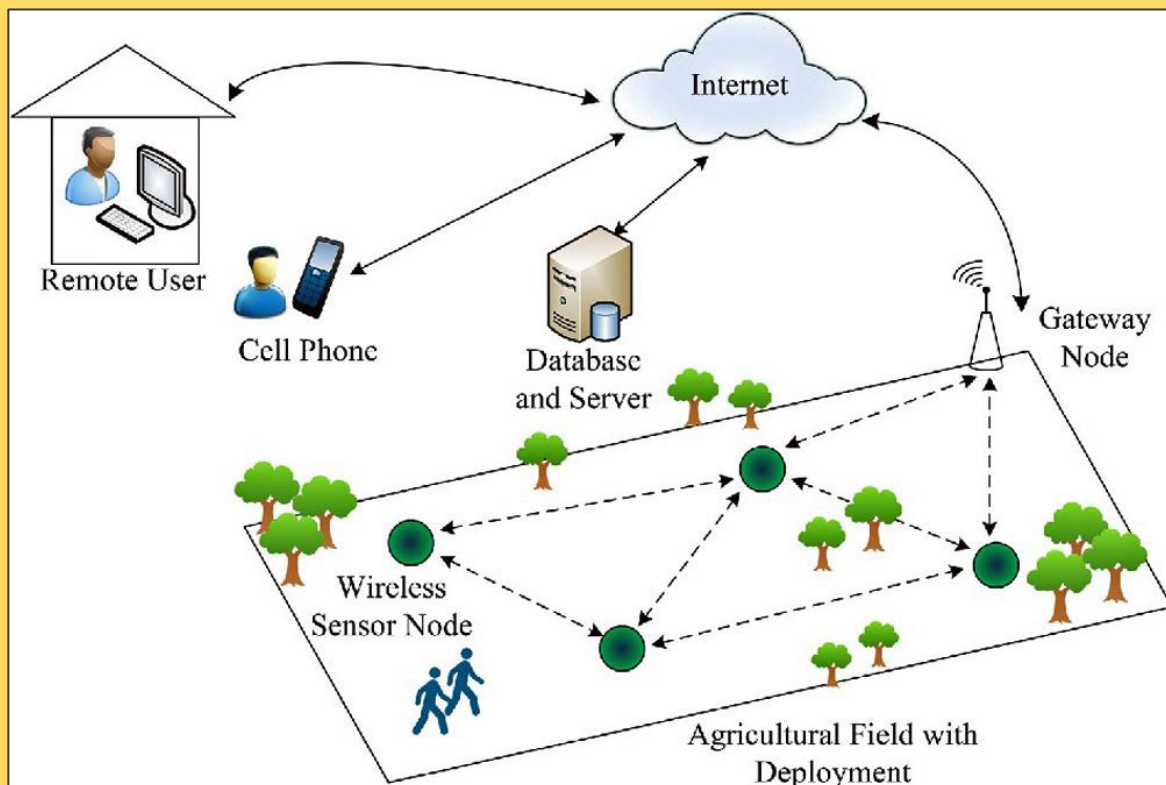
Faculty members of S&H Department have successfully participated in the IP Awareness Training program under **National Intellectual Property Awareness Mission** organized by Intellectual Property Office, India on 27.01.2022.

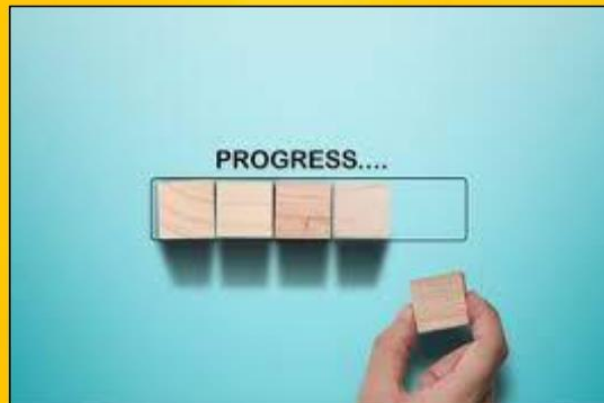
CIVIL | DIGITAL TEACHING TECHNIQUES

Mr.A.Jesudass, Assistant Professor, Department of Civil Engineering has completed a one-week online certificate course on “Digital Teaching Techniques” organized by ICT Academy from 24th to 28th January 2022.



INFOGRAPHICS | SMART FARMING





FACULTY PROGRESSION

CSBS | CONFERENCE SESSION CHAIR

Dr.S.Balakrishnan, Professor and Head, Department of Computer Science and Business Systems has preceded as a Session Chair in the International Conference on Computational Communication and Informatics (ICCCI 2022) organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore during 25th -27th January 2022.



CSBS | MANTHAN 2021 EVALUATOR

Dr.S.Balakrishnan, Professor and Head, Department of Computer Science and Business Systems has headed an active role as Evaluator during the Grand Finale of “Manthan 2021” organized by the Ministry of Education India held from 8th – 10th December 2021.

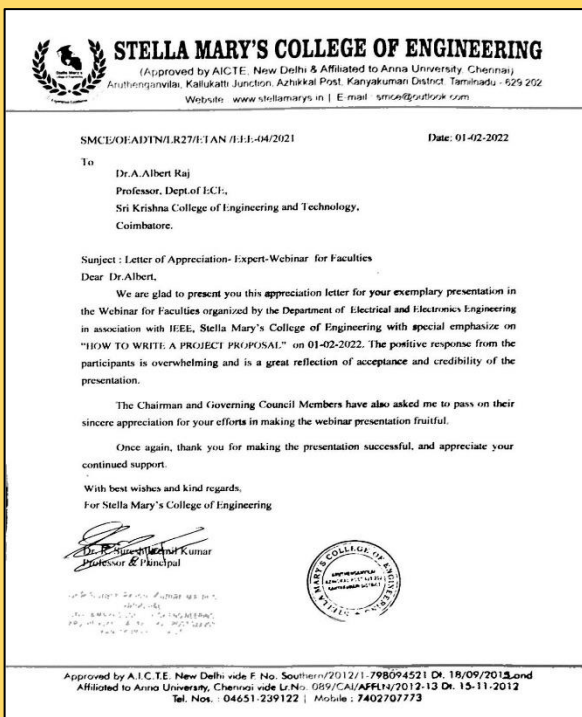


CIVIL | CONFERENCE REVIEWER



Dr.S.Ramakrishnan and **Dr. P. Saravanakumar**, Associate Professors, Department of **Civil Engineering** have been appreciated for their role as a **Review Committee Member** in the National Conference on Sustainable Material and Smart Practices (NCSMSP'21) organized by the Department of Civil Engineering of Bannari Amman Institute of Technology held on 17th and 18th December 2021.

ECE | GUEST LECTURE



Dr.A.Albert Raj, Professor, ECE has delivered a lecture on "**How to write a project proposal**" organized by Stella Maris college of Engineering, Kanyakumari on 01.02.2022.

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CONFERENCE PRESENTATION

CSE| CONFERENCE PRESENTATION



Ms.G.Renugadevi, Assistant Professor, CSE has successfully presented a paper entitled "Efficient Way to Predict Oxygen Availability Resources Using AI" in the International Conference on Advances in Computing Communication and Applied Informatics (ACCAI 2022) organized by St. Joseph's College of Engineering, Chennai on 28.01.2022 and 29.01.2022.

CSE| CONFERENCE PRESENTATION

Dr. P. Mohan Kumar, Professor, CSE has successfully presented a paper entitled "Towards a Secure Software Defined Network with Adaptive Mitigation of DDoS Attack by Machine Learning Approaches" in the International Conference on Advances in Computing Communication and Applied Informatics (ACCAI 2022) organized by St. Joseph's College of Engineering, Chennai on 28.01.2022 and 29.01.2022.



BENEFITS OF 3D PRINTING

